## **CLAIMS**

## I claim:

- 1. A medicament for the treatment of open wounds, the medicament comprising super-oxidized water based on hypochlorous acid.
- 5 2. The medicament according to claim 1, wherein the super-oxidized water is in liquid form for application to the wound by bathing or spraying.
  - 3. The medicament according to claim 1, wherein the super-oxidized water is in gel form for topical application to the wound.
  - 4. The medicament according to claim 1, wherein the super-oxidized water or a preparation derived therefrom has a pH of 4 to 7.
  - 5. The medicament according to claim 4, wherein the pH is in a range of about 4.0 to 6.5.
  - 6. The medicament according to claim 5, wherein the pH is in a range of about 4.0 to 6.2.
  - 7. The medicament according to claim 6, wherein the pH is in a range of about 4.3 to 6.2.
    - 8. The medicament according to claim 7, wherein the pH is about 5.4.
  - 9. The medicament according to claim 1, wherein the super-oxidized water has a redox potential of >950mV.
- 20 10. The medicament according to claim 9, wherein the super-oxidized water has a redox potential of about 1000mV.
  - 11. The medicament according to claim 1, wherein the super-oxidized water or a preparation derived therefrom has a biocide rate (D Value) of approximately 1 log reduction unit of bacillus subtilis spores in less than 1 minute with a 9:1 super-oxidized water: innoculum mix.
  - 12. The medicament according to claim 1, wherein the super-oxidized water is diluted to an extent that it does not inhibit cell proliferation in use.

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- 13. The medicament according to claim 12, wherein the super-oxidized water is diluted to an extent that it promotes cell proliferation in use.
- 14. The medicament according to claim 1, wherein the super-oxidized water comprises an output solution obtained by electrochemical treatment of a saline solution.
- 5 15. The medicament according to claim 14, wherein the super-oxidized water has a pH adjusted to a desired level by using an alkaline solution output from an electrochemical cell in which the saline solution is treated.
  - 16. The medicament according to claim 14, wherein the output solution further comprises a phosphate buffer to adjust a pH of the solution to a desired level.
  - 17. A super-oxidized water based on hypochlorous acid for use in treatment of a human or animal body.
    - 18. The super-oxidized water according to claim 17 having a pH of 4 to 7.
  - 19. The super-oxidized water according to claim 18 having a pH in a range of about 4.0 to 6.5.
  - 20. The super-oxidized water according to claim 19 having a pH in a range of about 4.0 to 6.2.
  - 21. The super-oxidized water according to claim 20 having a pH in a range of about 4.3 to 6.2.
    - 22. The super-oxidized water according to claim 21 having a pH of about 5.4.
- 20 23. The super-oxidized water according to claim 17, having a redox potential of >950mV.
  - 24. The super-oxidized water according to claim 23 having a redox potential of about 1000mV.
- 25. The super-oxidized water according to claim 17, having a biocide rate (D Value)
  25 of approximately 1 log unit reduction of bacillus subtilis spores in less than 1 minute with a 9:1 super-oxidized water: innoculum mix.
  - 26. A method for treatment of a human or animal body, comprising administering to the human or animal body a super-oxidized water based on hypochlorous acid.

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- 27. The method according to claim 26, comprising administering super-oxidized water as a medicament for treatment of leg ulcers or other open wounds.
- 28. The method according to claim 26, comprising administering the super-oxidized water as a medicament for controlling microbial population and permitting cell growth.
- 29. The method according to claim 26, wherein the super-oxidized water or a preparation derived therefrom has a pH of 4 to 7, a redox potential of >950mV, and a biocide rate (D Value) of approximately 1 log unit reduction of bacillus subtilis spores in less than 1 minute with a 9:1 super-oxidized water: innoculum mi.
- 30. A method of preparing a medicament according to 1, comprising passing a saline solution through an electrochemical cell having electrodes separated by a semipermeable membrane, operating the cell in such manner as to produce super-oxidized water based on hypochlorous acid, and incorporating the super-oxidized water in a carrier preparation at a sufficient concentration to impart biocidal properties and allow cell proliferation when applied to a human or animal body.
- 31. The method according to claim 30, further comprising controlling a pH of the super-oxidized water generated in the cell by a buffering action within the cell involving refeeding alkaline solution also generated in the cell.
- 32. A method of treating a leg ulcer or other open wound on a human or animal body, comprising applying to the wound a medicament according to claim 1.
- 20 33. The method according to claim 32, wherein the step of applying the medicament comprises immersing the wound in a hydrobath containing the medicament.
  - 34. A hydrobath preparation for the treatment of leg ulcers or other open wounds comprising super-oxidized water based on hypochlorous acid.